

Listing of the Claims

1. (Currently Amended) Modular device ~~(1)~~ for the detection and/or transmission of radiation, comprising - a carrier ~~(10)~~ with a mounting surface ~~(12)~~ and a set of first connecting elements ~~(11)~~; - a set of modules ~~(20)~~ for the detection and/or transmission of radiation, each of them comprising a second connecting element ~~(21)~~ that can be coupled to one of said first connecting elements ~~(11)~~ to form a joint.
2. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~ wherein the joint is adapted to allow rotation on at least one axis and/or revolution around a point and/or a linear movement.
3. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~ wherein the modules ~~(20)~~ may contact each other when they are mounted on the carrier ~~(10)~~.
4. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~ wherein the modules ~~(20)~~ comprise a base portion ~~(22)~~ that is larger in diameter than other parts of the module.
5. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~ wherein the second connecting elements are balls ~~(21)~~ or cylinders.
6. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~ wherein the first connecting elements are constituted by circular or rectangular holes ~~(11)~~ in the mounting surface ~~(12)~~ and that the second connecting elements ~~(21)~~ can be snapped into or through said holes ~~(11)~~ or fixed to the holes ~~(11)~~ by a locking element.
7. (Currently Amended) Modular device according to claim 6, ~~characterized in that~~ wherein the second connecting elements ~~(21)~~ protrude from the backside of the carrier ~~(10)~~ when fixed to the holes ~~(11)~~.

8. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~
wherein the second connecting elements are flexible rods.

9. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~
wherein the mounting surface ~~(12)~~ is a section of a plane, a cylinder or a sphere.

10. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~
wherein the modules ~~(20)~~ have a shape that allows the gapless filling of a plane,
particularly the shape of a prism with a rectangular or hexagonal cross section.

11. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~
wherein the modules ~~(20)~~ comprise a sensitive unit ~~(24)~~ on which an anti-scatter grid ~~(25)~~
is mounted.

12. (Currently Amended) Modular device according to claim 1, ~~characterized in that~~
wherein the first and second connecting elements ~~(11, 21)~~ are adapted to make at least one
electrical contact when coupled together.

13. (Currently Amended) Carrier ~~(10)~~ for a modular device ~~(1)~~ for the detection and/or
transmission of radiation, comprising a mounting surface ~~(12)~~ and a set of first connecting
elements ~~(11)~~ that can be coupled with second connecting elements ~~(21)~~ of modules ~~(20)~~ to
form a joint.

14. (Currently Amended) Module ~~(20)~~ for a modular device ~~(1)~~ for the detection and/or
transmission of radiation, comprising a second connecting element ~~(21)~~ that can be
coupled to a first connecting element ~~(11)~~ of a carrier ~~(10)~~ to form a joint.

15. (Currently Amended) Imaging device, particularly a CT-system or a PET scanner,
comprising an X-ray sensitive modular device ~~(1)~~ according to claim 1.